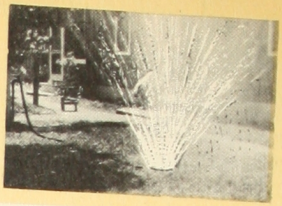
316-5.

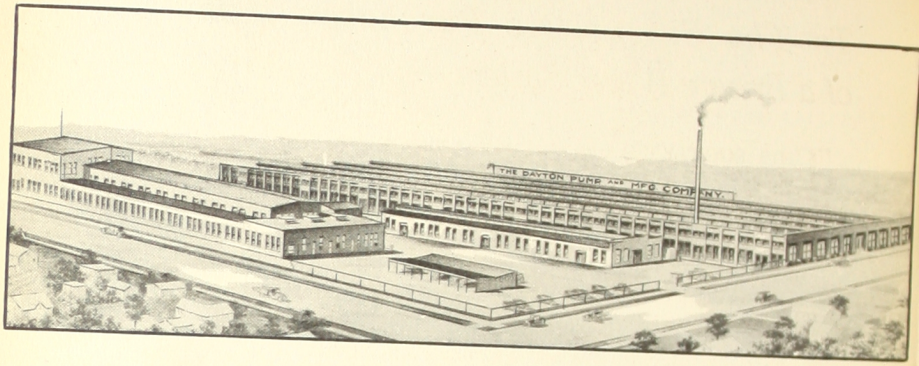
DEPENDABLE Water Service

for Country-Suburban and Farm Houses

ELECTRIC HOUSE PUMPS
Dayton
WATER SUPPLY SYSTEMS

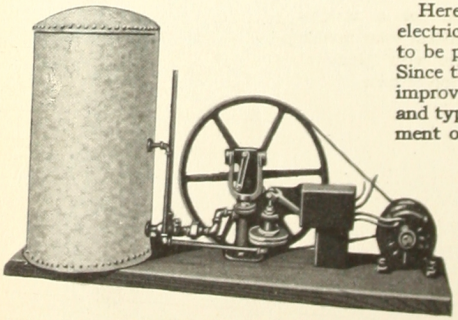
316-5.





DAYTON Water Systems are made in this factory covering four acres of ground and 125,000 square feet of floor space. Modern machinery, skilled workmen and experienced supervision unite to build private water systems that will be in daily use long after their cost has been forgotten.

Manufactured and Guaranteed by
THE DAYTON PUMP & MANUFACTURING CO.
Dayton, Ohio



The First DAYTON

Here is shown the first commercially successful electric automatic water system for private use to be placed on the market. That was in 1909. Since then DAYTON Pump products have been improved and simplified until at present models and types of systems are made for every requirement of private water service.

A Word About Values

To The Prospective Purchaser of a Private Water System —

THIS BOOKLET is presented with a view to explaining some of the things about private water supply systems which years of experience show are either not understood or are overlooked by the average purchaser.

Water systems look much alike to outward appearance. The difference becomes apparent after installation. When you invest your money you want to be certain your running water supply will be sure and unfailing—the same as city water service—you don't want periods with no water due to a breakdown. Next, the more years of useful life your machine gives for your investment the smaller its cost to you.

On the opposite page is shown a photograph of the first DAYTON built in 1909. Since this first model, many thousands of outfits have been sold in all parts of the world. As experience and constant testing has shown the way to improvements, DAYTON Pump products have given increased value to the purchaser. Many of the first outfits are still in every day use giving satisfactory service.

DAYTON Water Systems are backed by ample factory facilities and a responsible distributing and service organization, which has the longest record of pump designing and manufacturing experience in the industry. Trained specialists will gladly recommend the proper equipment to secure the desired results with least expense. This service is entirely free and carries no obligation to purchase.

Whether automatic water service for a modest cottage or large estate or ranch is wanted, your investment in the DAYTON will insure you plentiful, economical service for the longest period of time.

East Warren, Penna.

We have had remarkable service from this outfit. The system was installed in our building in 1910 and has given continuous and uninterrupted service for nearly fifteen years, furnishing the entire water supply for four stores, four flats and a bakery.

The maintenance cost has been insignificant and practically the only expense of operation has been the small amount each month for electric current.

R. J. Hatton, 215 Pennsylvania Ave.

Athens, Ohio.

For your information, I will state that I am more than pleased with the DAYTON Water System which you installed in my residence some two years ago, we having an abundance of water under a heavy pressure throughout the house at all times. I can highly recommend it to any person that is anticipating installing a system of this kind.

D. A. Hardin, Lincoln Street.

Protecting the "DAYTON" User

Here is the written guarantee given with every DAYTON Pump or Water System, regardless of size or price:

Guarantee Certificate

"DAYTON" PUMPS AND WATER SYSTEMS

Issued to _____

_____

Serial No. _____ *Installed* _____ _____ *19*___

BY

"DAYTON" Pumps and Water Systems are built of first-class material and workmanship throughout, and are guaranteed to give satisfactory service if installed in accordance with printed instructions accompanying each pump and system. We further agree to replace any parts which may prove defective, due to faulty material or workmanship, within one year from date of installation, which date is determined by postmark on return post card attached to pump. All replacements are f. o. b. Dayton, Ohio.

THE DAYTON PUMP & MANUFACTURING CO.

Per _____

VICE PRES. and GEN'L MGR.

This is a Guarantee that Means Something.

We are so confident that every pump and private water system we build will give satisfactory results that we give you a written guarantee.

This is simply to prove to the purchaser our own faith in DAYTON Pump products and to insure to him that any defect in material or workmanship will be promptly rectified. Your investment in a DAYTON is absolutely safe since our responsibility does not end with the sale. The system must give perfect service when properly installed.

Hannibal, Missouri.

We have been using one of your deep well pumps for five years, operating an average of twenty hours a day in the summer time and eight to ten hours a day in the winter. We have in the last month put our first work on same and that was merely to renew the leather on the suckers and to tighten up the bearings on the shafts

Can certainly recommend this as a highest quality pump, and would not ask for better service.

Busy Bee Ice Cream Co., 512 Broadway,
C. J. Menzel, Prop.

Warsaw, Ills.

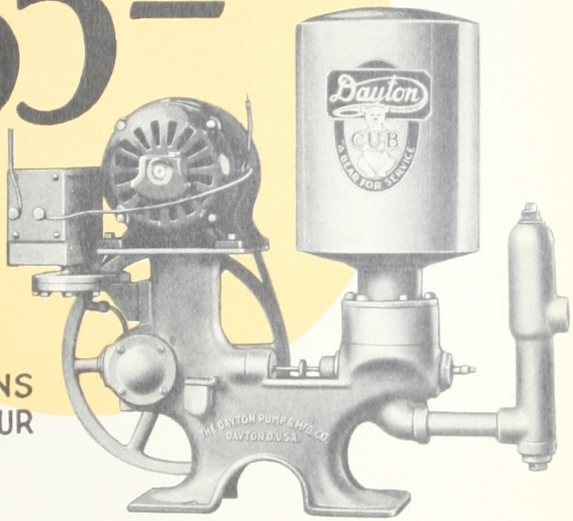
Late in the winter we installed two of the DAYTON Pumps—one a DAYTON Junior Deep Well Head, the other a No. 143 System complete. These pumps have been in operation about four years and have given constant service. The deep well head supplies about 30 head of stock as well as part of the house system. Neither of the pumps have given the slightest trouble, and their freedom from attention is a welcome relief from the gasoline power which we previously used.

N. N. Cochran & Son, Red-Bud Stock Farm.

The DAYTON "CUB"

"A Bear for Service"

$85.00



200 GALLONS PER HOUR

Priced So Low Every Home Can Afford Water Under Pressure

THIS low priced, large capacity system makes it possible for the most modest home not having central service to now have all the comfort and convenience of running water. It will pump from cisterns, shallow wells, lake, spring or stream—wherever the water level of the source of supply is not more than 22 feet (vertical) below the pump.

When a faucet anywhere in the house piping is opened, the pump automatically starts and delivers the water under good pressure directly to the faucet. When the faucet is closed, the pump automatically stops.

It is recommended for small suburban and country homes, summer cottages, pleasure boats, etc. When the main water supply is "hard" and therefore unfit for bathing, laundry, etc., the "Cub" model offers the ideal arrangement for plentiful, automatic, "soft" water service. In homes using rain water cisterns, it will replace the old fashioned noisy, wasteful "water motor" at a cost not to be compared to that of a chemical softener.

Allston, Mass.

Your pump is doing all you claim. We are more than satisfied. Best piece of furnishing we ever had put in. This is a No. 2 UNISYSTEM installed at a summer location—Lake Boone, Gleasonville, Mass.

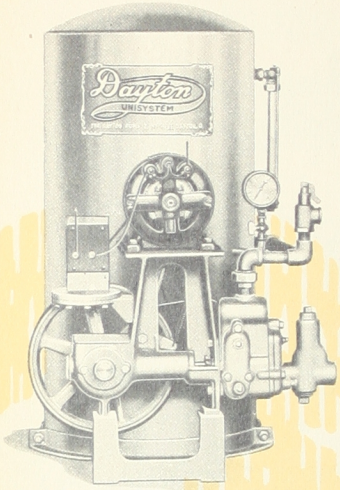
F. C. Whitney.

Storrs, Conn.

Several weeks ago I bought one of your "CUB" pumps from Wagner & Ide of Stafford Springs. You may be interested in learning that this pump is giving better satisfaction than ever expected.

A. H. Dreesen, Dept. of Engineering, Connecticut State College

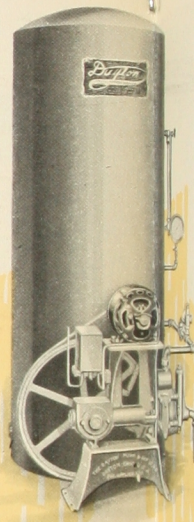
There Is A DAYTON Water S
Exactly Suit



DAYTON UNISYSTEM

Completely Assembled Automatic Shallow Well Systems

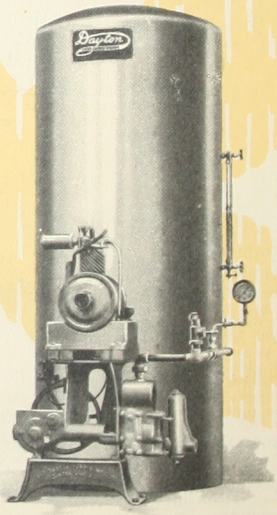
For use where large tank storage is not essential. Easily installed. Made in five sizes—160, 200, 240, 360 and 400 gallons per hour pumping capacity with 30 and 40 gallon pressure tanks. These systems should not be confused with similar looking outfits having extremely small tanks and small pumping capacities. Every system complete with water and pressure gauges and necessary valves and fittings for efficient and safe automatic operation. Recommended for pumping cistern water and especially suited for small families for general supply and for summer cottages, camps, etc.



SERIES Nos. 180, 240 AND 360 SYSTEMS

Series No. 420 Shallow Well Systems Pumping Capacity 420 Gallons per hour

This system is used where electric current is not available and will furnish good service for the average suburban or country place. While not fully automatic, as are the electric systems, if a pressure tank large enough to hold an average day's supply is selected, the pump need be started only once a day and will automatically stop itself when the desired pressure has been built up. Water can then be drawn the same as with an electric outfit. The gasoline engine is ½ H. P., four-cycle, vertical, air cooled; will run 10 hours on one gallon of gasoline. It starts easily and runs smoothly and can be used for any work within its capacity. The system is furnished complete as shown with all necessary valves, gauges and fittings.



SERIES No. 420 SYSTEM

Hayward, Calif.

I received your Guarantee Certificate covering my DAYTON Pump. It is satisfactory. It is running perfect. I have a squab farm and the water now runs in to the drinking cups. It saves me a lot of work carrying it in buckets.

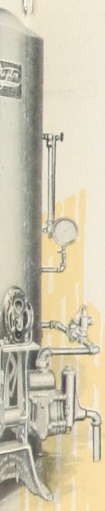
P. McDonnell,
Box 559

Bonesteel, S. Dak.

We have one of your pump heads which has been installed seven years. It normally operates about six hours per day. The pump has always been very satisfactory and this is the first repair we have ever made and it would not have been necessary except for a change of motors.

Mrs. C. Haisch.

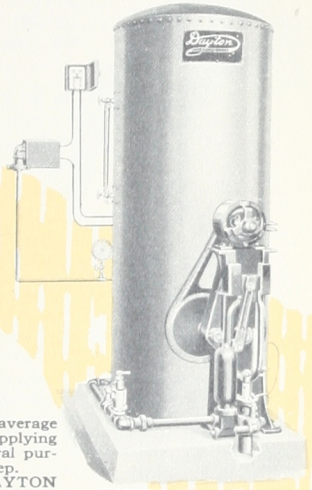
ter System
Suited to Each Requirement



s. 180, 240
SYSTEMS

Series Nos. 180, 240 and 360 Shallow Well Systems
Pumping Capacity—200, 240, 360 and 400 gallons per hour

These are well balanced automatic electric systems for use where reserve tank storage is desired. They are used extensively for suburban and country homes, to furnish water for general use. Furnished with tanks of 80 to 220 gallons capacity. System consists of pump complete with motor and automatic switch, tank (size as desired), water and pressure gauges and necessary valves and fittings to connect pump and tank, oil can and wrench.



SERIES No. 45 SYSTEM

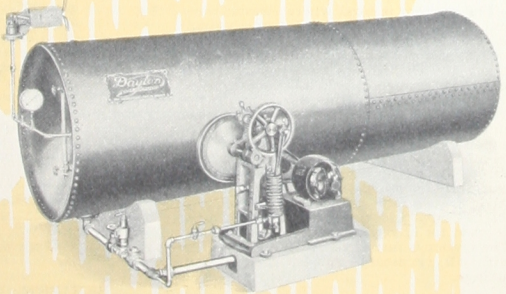
Series No. 45 Deep Well Systems

This series is suitable for the average suburban or country place for supplying automatic water service for general purposes from wells 25 to 160 feet deep.

The complete system includes DAYTON JUNIOR Deep Well Pump with automatic switch and brass well cylinder; Pneumatic Pressure Tank; Water and Pressure Gauges, Safety Valve and Shut-Off Valve. Drop pipe and Sucker Rod are extra. When desired Frost Proof Attachment can be furnished to protect pump from freezing.

Series No. 60 Deep Well Systems

This Series is suitable for larger requirements than the No. 45 Series. Will supply equal of city water service from wells 25 to 230 feet deep with capacities from 137 to 382 gallons per hour. Made with either direct gear or silent chain drive or for belt drive from gasoline engine or motor. Complete System includes Deep Well Pump with motor, automatic switch and well cylinder; pressure tank of any size and valves and gauges to properly connect pump and tank. Drop pipe and sucker rod extra. This series is also built in two larger sizes with pumping capacities up to 3,000 gallons per hour from wells down to 300 feet. These larger sizes are used in public buildings, large estates, school houses, etc.



SERIES No. 60 SYSTEM

Arcadia, N. Y.

I am pleased to inform you that your well equipment has been entirely satisfactory and has more failed to furnish the supply necessary to serve the two hundred and sixty pupils and teachers who attend this school.

Similar results have been obtained by a pumping equipment which you have furnished for the East Irvington, School, N. Y. With such service I must not hesitate to recommend or specify DAYTON Pumps.

Adolph H. Romann, Architect, Wing Street.

Galion, Ohio

Replying to your favor of the 22nd, desire to state that the pump furnished me is giving perfect satisfaction. I purchased same to replace a pump made by another company, which was continually in need of repair and which made its upkeep almost prohibitive.

Your interest in this matter after the sale was made is unusual and therefore all the more appreciated by me.

Carl J. Gugler, 203-208 Wyandot Bldg.

Some Accessories That Increase the Value of DAYTON Water Systems

Sub Base for Unisystems

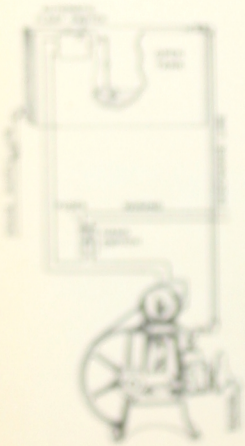
A strong, substantial base made of cast iron to fit regular sizes of DAYTON "Unisystems." Especially desirable where system is located in basement as the base elevates the outfit from the floor, making a more sightly installation, preventing accumulation of rubbish about the system and rendering it more accessible for inspection or adjustments.

DAYTON Fresh Water Valve

For Shallow Well Systems Only

The DAYTON Fresh Water Valve is designed for the purpose of securing fresh drinking water direct from the well in connection with Shallow Well Systems.

Unlike most similar arrangements, the "DAYTON" fresh water valve eliminates the necessity of water always at rest in the fresh water line, the line being taken out of the bottom opening of the valve itself as illustrated. This simplifies installation and makes fewer connections with attendant possibilities of leakage.



DAYTON Float Switch for Overhead Tank

The DAYTON Automatic Float Switch is designed for automatically starting and stopping Electric Pumps used for pumping into open overhead or attic tanks. A copper ball floating on the surface of the water opens and closes the switch as the water goes to extreme highest pumping and lowest level, thus it prevents all possibility of the tank overflowing with resulting damage to ceiling, walls and furnishings.

DAYTON "FREEFLO" Fresh Water Hand Iron Deep Well

The DAYTON FREEFLO is a patented arrangement for securing water for drinking direct from the well without passing through the tank. It is used with Deep Well Systems above the usual fresh water check valve commonly used on shallow well pump systems is unsatisfactory when used in connection with deep well systems.

With the FREEFLO there is no by-pass or leak back from the pressure tank. This eliminates frequent starting and stopping of the pump, due to leakage caused by air leaking under the valves of the cylinder down to the well, a dripping faucet or leaky joints to stop step to well.

The DAYTON FREEFLO consists of a high grade quick closing faucet with metal handle, a nickeled steel rod to connect faucet with starting switch and heavily constructed, perfectly insulated starting switch ample to control 3 standard motor. The faucet is directly connected to the starting switch by the steel rod. Opening the faucet closes the switch and starts the pump. Closing the faucet stops the pump instantly.

New Orleans, La.

Your letter of July 7th duly received with the guarantee covering my pumping outfit.

For your information will say that this water system is working to my entire satisfaction and I do not know when I have installed any equipment around my farm that has given any more pleasure to all hands than this pump, especially the shower bath this hot weather

J. B. Lester, The Louistana Bldg.

Cary, N. C.

The writer was looking at a DAYTON Junior Deep Well Pump that had been in use for six years. This pump had been working all this time without any care. I noticed the bearing, bushings and air pump were somewhat worn, and I persuaded the owner to repair it, and he says that he thinks there is no pump like the DAYTON.

Heater Well Drilling Co., By R. O. Heater, Mgr.

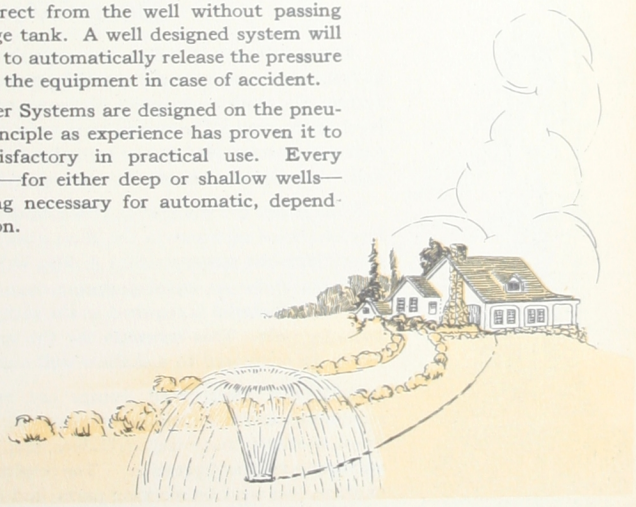
Principles of the Pneumatic Water Supply System

JUST as the central water works supplies "running water" in city homes, so does the modern private pneumatic water system serve the same purpose for the suburban or country property.

The principle is simply pumping water into an air tight tank. Air is compressible to a great degree as for example in an automobile tire. As more water is pumped into the tank, the air space becomes correspondingly smaller and the air thus compressed exerts a constant pressure on the water in the tank. The outlet of the tank being connected to the house service lines, as soon as a faucet anywhere in the piping system is opened, the air in the tank tries to escape, pushing the water ahead of it. Thus, water can be forced almost any distance horizontally and to upper floors, etc., under good pressure.

A control feature automatically starts the pump as the tank pressure is diminished to a minimum by the withdrawal of water and automatically stops it as it builds up the tank pressure to the maximum. Provision should be made also for a fresh water attachment to secure drinking water direct from the well without passing through the storage tank. A well designed system will have a relief valve to automatically release the pressure without damaging the equipment in case of accident.

DAYTON Water Systems are designed on the pneumatic pressure principle as experience has proven it to be the most satisfactory in practical use. Every DAYTON system—for either deep or shallow wells—includes everything necessary for automatic, dependable, safe operation.



Freeburg, Ills.

Have just received the Guarantee for pumps purchased from Mr. Strittel. When I gave my order, I thought the price was rather high but since they have been installed and I found the amount of labor they save and the amount of water supply they have been giving, I am certainly more than pleased with the investment.

J. C. Joseph.

New York, N. Y.

The large DAYTON Deep Well Pumping equipment that you installed at my place, Passaic, N. J., several years ago has given utmost satisfaction. It runs economically and has given me cheap, dependable service.

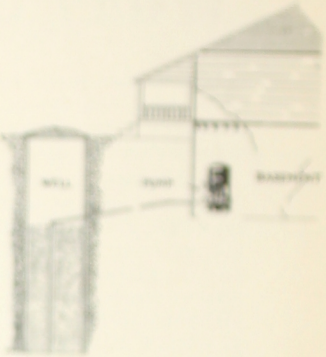
I am glad to recommend unqualifiedly the DAYTON Pumping equipment.

William V. Griffin,
86 Broadway.

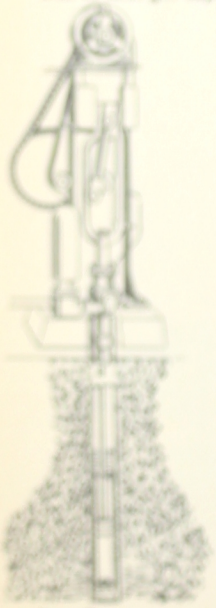
Shallow and Deep Wells

Why Systems of Different Types are Required

Shallow Wells



A shallow well pumping system operates on the same principle as where a liquid is sucked from a container through a straw. The pump exhausts the air in the suction line and atmospheric pressure forces the water in the well up the suction pipe and into the pump from which the next stroke of the pump forces it into the storage tank. The maximum depth at which water can be raised by suction is about 32 feet at sea level. For practical purposes, 22 feet is set as the maximum for pumping systems and all shallow well pumps are guaranteed for that vertical lift. A suction pump may be placed any reasonable distance horizontally from the source of supply as where the system is installed in the basement and the well 50 or 100 feet distant from the house. If desired, the pump can be placed at the source of supply with the tank at the house or the entire system can be installed at the source of supply. Local conditions vary and it is well to first get experienced advice on this point to insure best results.



Page Ten

Deep Wells

Deep wells are so called where the low water level is more than 22 feet below where the pump will be placed. In a deep well pumping system, the working cylinder of the pump is placed below the water level in the well. The power head must be placed directly over the well and is connected to the pumping cylinder by the "sucker rod" and "drop pipe" as shown in accompanying diagram.

Thus when the plunger in the cylinder is operated, the water is forcibly lifted up through the drop pipe into the pump and thence passed into the storage tank. A deep well pump ordinarily requires more power for an equal pumping capacity than a suction pump. Also more material is required as the sucker rod and drop pipe, well cylinder, etc. This accounts for the greater cost of a deep well pump, as compared to a shallow well outfit of like capacity.

DAYTON Deep Well Pumps are carefully designed to give maximum results at minimum cost. Roller bearings, silent chain drive, specially made well cylinders, etc., are used to reduce friction and promote quiet operation. The results show in reduced operating expense, less wear on working parts, and dependable service.

Ortisville, N. Y.

Received the Guarantee Certificate and thank you very much. In answer to your question whether I like my DAYTON I will say that words cannot express how much I appreciate it. I always have water and it requires but little attention.

Reuben Vreeland.

North Sedwick, Me.

I want to compliment you on the service this pump has given me. For nearly 8 years it has run with no repairs or trouble. About two years ago I bought a set of contacts. I have the same belt and the pump has never been repacked. It is a wonder.

W. H. Pervear.

Buying From a Dealer Doubles Your Protection

DAYTON Pump products are sold through local dealers.

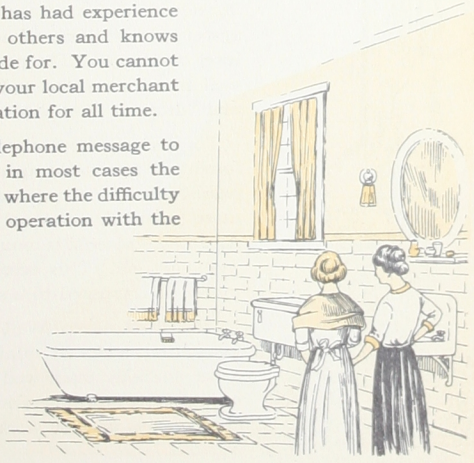
THE primary consideration is your own protection. In buying a DAYTON you not only have the written guarantee of a responsible manufacturer, but the direct face to face contact with your own local dealer whom you know.

There is always a big advantage when you can deal with the man near you. In the first place, you see what you are buying. You are not misled by extravagant words into buying something that fails to come up to your expectation of the value you should receive.

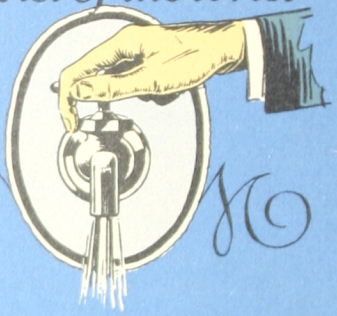
Also, the dealer can be of service to you. In selecting the proper type and size of outfit to meet your individual requirements, your dealer stands ready to give you the benefit of his experience in all kinds of water system installations.

The successful operation of a private water system depends upon the installation being properly made. Also the satisfaction derived from its use depends upon proper fixtures designed to render convenience and comfort. Your local dealer has had experience in making such installations for others and knows what to avoid and what to provide for. You cannot make a mistake in dealing with your local merchant and are sure of a reliable installation for all time.

If anything goes wrong, a telephone message to the dealer may set you right; in most cases the dealer will be able to tell you just where the difficulty lies. And the system is back in operation with the least loss of time.



A Twist of the Wrist



Printed in U. S. A.

THE MID-WEST COLOR OFFSET CO. DAYTON, OHIO